

CLAIM AMENDMENTS:

1. (currently amended) A method for analyzing hydraulic turbine singing noise vibrations comprising the steps of:

receiving at an expert site recorded singing noise information relating to singing noise vibrations recorded at a remote site of a hydraulic turbine operating at less than peak efficiency ~~recorded at a remote site either during turbine operation at the remote site or intentionally produced for test purposes at the remote site~~; and,

analyzing the recorded singing noise information at the expert site and recommending modifications to hydraulic turbine design to eliminate the singing noise vibrations during operation of the hydraulic turbine operating at less than peak efficiency.

2. (canceled)

3. (original) The method of claim 1 wherein the step of receiving the computer noise information involves receiving a computer file from the remote site via email.

4. (currently amended) The method for analyzing hydraulic turbine singing noise vibrations comprising the steps of:

recording into a computer file at a remote site singing noise vibrations of a hydraulic turbine ~~either during hydraulic turbine operation at less than peak efficiency at thea remote site or intentionally produced for test purposes from the remote site~~ to produce recorded singing noise information;

forwarding the recorded singing noise information from the remote site via a communication link to an expert site; and,

analyzing the recorded singing noise information at the expert site and recommending modifications to hydraulic turbine design to eliminate the

abnormal singing noise vibrations during operation of the hydraulic turbine operating at less than peak efficiency.

5. (cancelled)

6. (currently amended) The method of claim 4 ~~5~~ wherein the step of recording utilizes a portable computer and microphone connected to the computer for recording the noise information into the computer file.

7. (original) The method of claim 6 wherein a Windows sound recorder program is utilized to capture the noise information.

8. (currently amended) The method of claim 6 further comprising the steps of:

compressing the computer file of the recorded noise prior to the step of forwarding the recorded noise information to the expert site; and,

un-compressing the computer file of the recorded noise at the expert site prior to the step of analyzing the recorded noise information.

9. (original) The method of claim 4 wherein the step of forwarding the computer noise information involves sending the file from the remote site to the expert site via email.

10. (original) The method of claim 9 wherein the step of recording utilizes a portable computer and microphone attached to the computer for recording the noise information into the computer file.

11. (original) The method of claim 7 wherein a Window sound recorder program is utilized to capture the noise information.

12. (original) The method of claim 10 further comprising the steps of:
compressing the computer file of the recorded noise prior to the step of forwarding the recorded noise information to the expert site; and,
un-compressing the computer file of the recorded noise at the expert site prior to the step of analyzing the recorded noise information.

13. (currently amended) A system for analyzing hydraulic turbine singing noise vibrations comprising:

an expert site for receiving from a communication link recorded singing noise information relating to singing noise vibrations of a hydraulic turbine recorded at a remote site ~~either during turbine operation at the remote site at less than peak efficiency or intentionally produced for test purposes at the remote site~~; and,

an analyzing tool for analyzing the recorded singing noise information at the expert office site and for recommending modifications to hydraulic turbine design to eliminate the singing noise vibrations during operation of the hydraulic turbine operating at less than peak efficiency.

14. (canceled)

15. (original) The system of claim 13 wherein the step of receiving the computer noise information involves receiving a computer file from the remote site via email.

16. (currently amended) A system for analyzing hydraulic turbine singing noise vibrations comprising:

a remote site recorder for recording into a computer file at a remote site the singing noise vibrations of a hydraulic turbine ~~either during hydraulic turbine operation at less than peak efficiency at thea remote site or intentionally~~

~~produced for test purposes from the remote site~~ to produce recorded singing noise information;

a communication link for forwarding the recorded singing noise information from the remote site to an expert site; and,

an analyzing tool for analyzing the recorded singing noise information at the expert site and for recommending modifications to hydraulic turbine design to eliminate the singing noise vibrations during operation of the hydraulic turbine operating at less than peak efficiency.

17 (canceled)

18. (currently amended) The system of claim 16 ~~17~~ wherein the remote site recorder comprises a portable computer and microphone attached to the computer for recording the noise information into the computer file.

19. (original) The system of claim 18 wherein the remote site recorder comprises a sound recording program utilized to capture the noise information.

20. (original) The system of claim 18 where the remote site compresses the computer file of the recorded noise and the expert site un-compressing the computer file of the recorded noise.

21. (original) The system of claim 13 wherein the communication link forwarding the computer noise information involves sending the file from the remote site to the expert site via email.

22. (original) The method of claim 21 wherein the remote site recorder comprises a portable computer and microphone attached to the computer for recording the noise information into the computer file.

23. (original) The method of claim 17 wherein the remote site recorder comprises a program utilized to capture the noise information.

24. (original) The method of claim 22 wherein the remote site compresses the computer file of the recorded noise and, the expert site un-compresses the computer file of the recorded noise.